Patent Docket F

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Group Art Unit: To be assigned

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Blank et al.

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Serial No.: 09/940,166

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PROTEIN RECOVERY For:

CERTIFICATE OF MAILING

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November 27, 2001

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents Washington, D.C. 20231

Applicants submit herewith patents, publications or other information (attached hereto and Sir: listed on the attached revised Form PTO-1449) of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

This Information Disclosure Statement is filed in accordance with the provisions of:

## 37 CFR §1.97(b) [X]

- within three months of the filing date of the application other than a continued prosecution application under 37 CFR §1.53(d); or
- within three months of the date of entry of the national stage of a PCT application as set forth in 37 CFR§1.491, or
- before the mailing of the first Office action on the merits; or
- before the mailing of the first Office action after the filing of a request for a continued examination under 37 CFR §1.114.

## 37 CFR §1.97(c)

- by the applicant after the period specified in 37 CFR §1.97(b), but prior to the mailing date of any of a final action under 37 CFR §1.113, or a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application, and is accompanied by either the fee set forth in 37 CFR §1.17(p) or a statement as specified in 37 CFR §1.97(e), as checked below.
- 37 CFR §1.97(d) 0

after the period specified in CFR §1.97(c), and is accompanied by the fee set forth in 37 CFR §1.17(p) and a statement as specified in 37 CFR §1.97(e), as checked below.

[If either of boxes 37 CFR §1.97(c) or 37 CFR §1.97(d) is checked above, the following statement under 37 CFR §1.97(e) may need to be completed.]

- [] 37 CFR §1.97(e) Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- 37 CFR §1.704(d) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and the communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of this information disclosure statement. Therefore, in accordance with the provisions of 37 CFR §1.704(d), the filing of this information disclosure statement will not be considered a failure to engage in reasonable efforts to conclude prosecution under 37 CFR §1.704.
- The U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 07-0630 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement under 37 CFR §1.17(p). Any deficiency or overpayment should be charged or credited to this deposit account.

A list of the patent(s) or publication(s) is set forth on the attached revised Form PTO-1449 (Modified).

A copy of the items on PTO-1449 is supplied herewith.

Those patent(s) or publication(s) which are marked with an asterisk (\*) in the attached PTO-1449 form are not supplied because they were previously cited by or submitted to the Office in a prior application Serial Nos. <u>09/097,309</u> and <u>09/460,587</u>, filed <u>12 June 1998</u> and <u>14 December 1999</u> and relied upon in this application for an earlier filing date under 35 USC §120.

A concise explanation of relevance of the items listed on PTO-1449 is:

- [X] not given
- given for each listed item
- given for only non-English language listed item(s) [Required]
- [] in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

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In accordance with 37 CFR §1.97(g), the filing of this information disclosure statement shall not be construed as a representation that a search has been made.

In accordance with 37 CFR §1.97(h), the filing of this information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

In the event that the Office determines a fee to be due where none is specifically authorized in this paper, the U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 07-0630 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement under 37 CFR §1.17(p).

Respectfully submitted,

GENENTECH, INC.

Date: November 27, 2001

By: Lee K. Tan, Ph.D.

Reg. No. 39,447

Telephone No. (650) 225-4462

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PATENT TRADEMARY OFFICE

FORM PTO-1449

LIST OF DISCLOSURES CHEED APPLICANT

U.S. Dept. of Commerce

Patent and Trademark Office

Atty Docket No.
P1105R1D1C1

Applicant
Blank et al.

Filing Date
27 Aug 2001

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(Use several sheets if necessary) OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.) Clezardin, "One-step procedure for the rapid isolation of mouse monoclonal antibodies and their antigen binding fragments by fast protein liquid chromatography on a mono Q anion-exchange column" Journal of \*29 Chromatography 319:67-77 (1985) Duchosal et al., "Immunization of hu-PBL-SCID mice and the rescue of human monoclonal Fab fragments through combinatorial libraries" Nature 355(6357):258-262 (Jan 16, 1992) \*30 Gruber et al., "Efficient Tumor Cell Lysis Mediated by a Bispecific Single Chain Antibody Expressed in Escherichia Coli" Journal of Immunology 152:5368-5374 (1994) \*31 Holliger et al., ""Diabodies": Small Bivalent and Bispecific Antibody Fragments" <u>Proc. Natl. Acad. Sci.</u> USA 90:6444-6448 (Jul 1993) **\*32** Jakobovits et al., "Analysis of Homozygous Mutant Chimeric Mice: Deletion of the Immunoglobulin Heavy-Chain Joining Region Blocks B-cell Development and Antibody Production" Proc. Natl. Acad. \*33 90:2551-2555 (March 1993) "Germ-line Transmission and Expression of a Human-Derived Yeast Artificial Jakobovits et al., Chromosome" <u>Nature</u> 362:255-258 (March 18, 1993) \*34 Kostelny et al., "Formation of a Bispecific Antibody by the Use of Leucine Zippers" <u>Journal of</u> <u>Immunology</u> 148(5):1547-1553 (1992) \*35 Landschulz et al., "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins" <u>Science</u> 240:1759-1764 (1988) \*36 Lindmark et al., "Binding of immunoglobulins to protein A and immunoglobulin levels in mammalian sera" J. <u>Immunol. Meth.</u> 62:1-13 (1983) \*37 Marks et al., "By-Passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling" Bio/Technology 10:779-783 (1992) \*38 Marks et al., "By-passing immunization: human antibodies from V-gene libraries displayed on phage" J. Mol. Biol. 222:581-597 (1991) \*39 McCafferty et al., "Phage antibodies: filamentous phage displaying antibody variable domains" <u>Nature</u> 348:552-554 (1990) \* 4 N Milstein and Cuello, "Hybrid Hybridomas and Their Use in Immunohistochemistry" <u>Nature</u> 305:537-540 (Oct **4**1 Morimoto et al., "Single-step purification of F(ab')2 fragments of mouse monoclonal antibodies (immunoglobulins G1) by hydrophobic interaction high performance liquid chromatography using TSKgel Phenyl-5PW" <u>Journal of Biochemical and Biophysical Methods</u> 24:107-117 (1992)

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Examiner

**Date Considered** 

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Sheet 3 of	3_
Atty Docket No.	Serial No. 09/940,166	
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